

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P381251

Luminaire Tested: **PRV-XL-PA4B-730-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4B-730-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26578 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

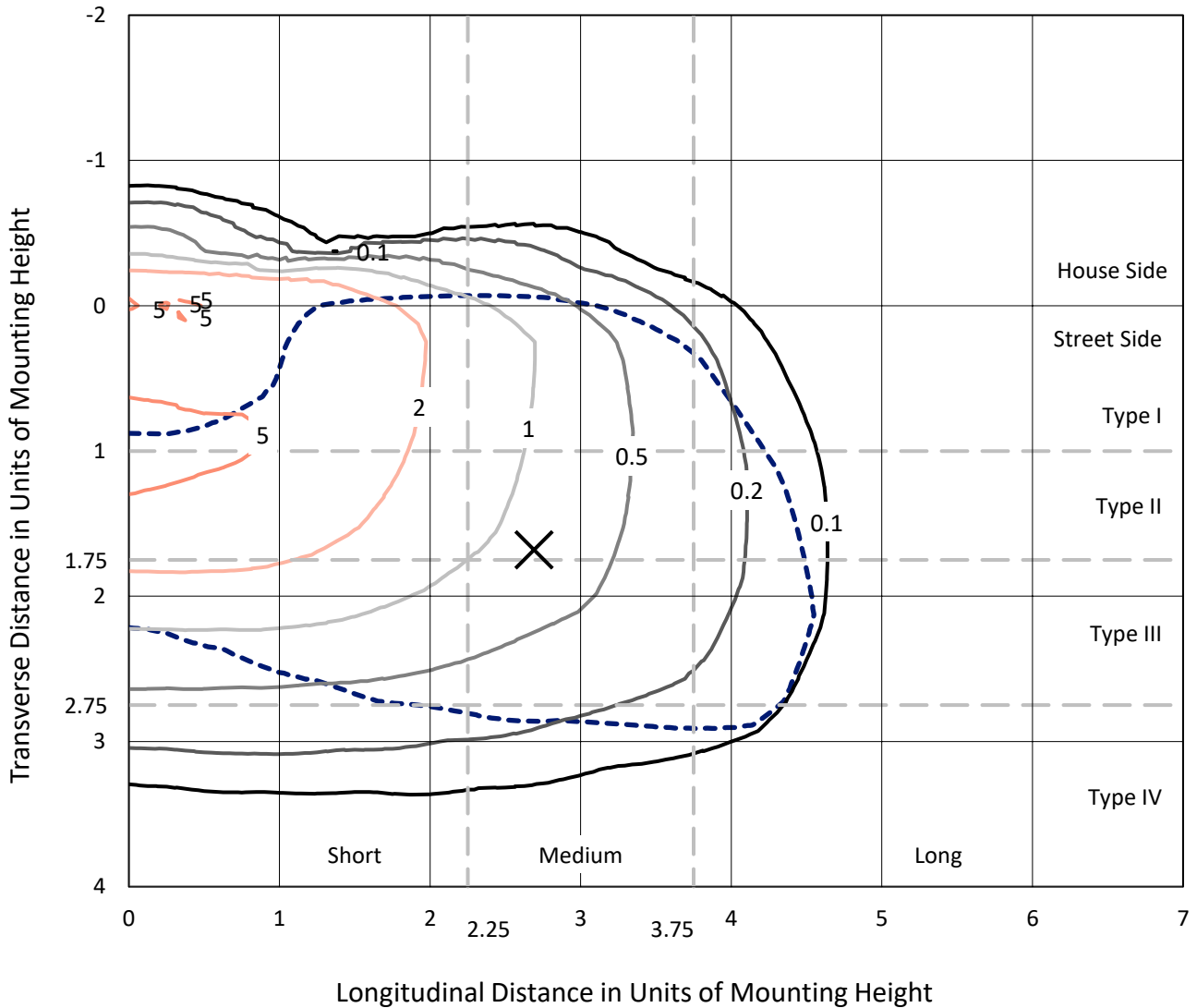
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P381251
 CATALOG NUMBER: PRV-XL-PA4B-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

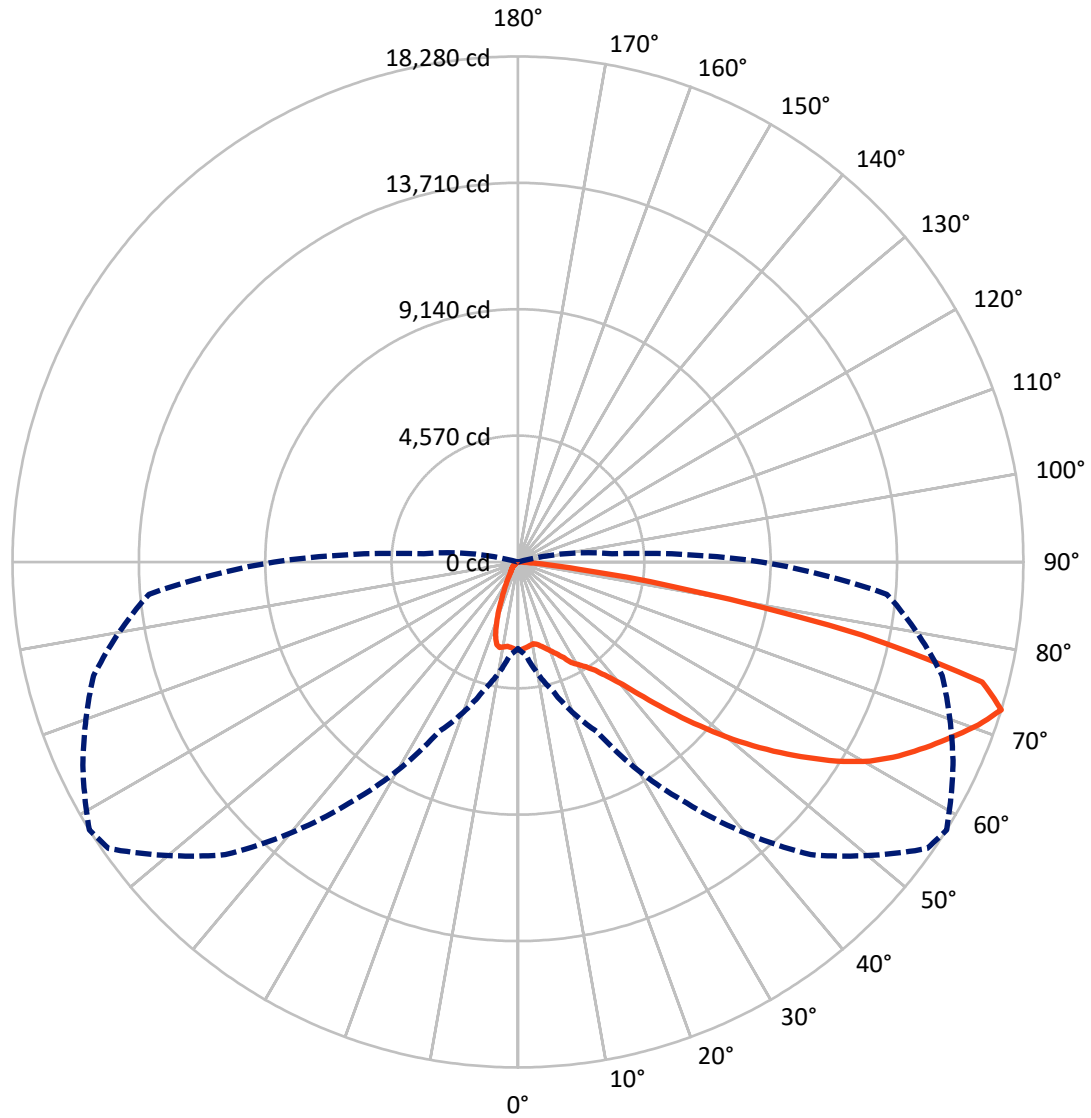
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P381251
CATALOG NUMBER: PRV-XL-PA4B-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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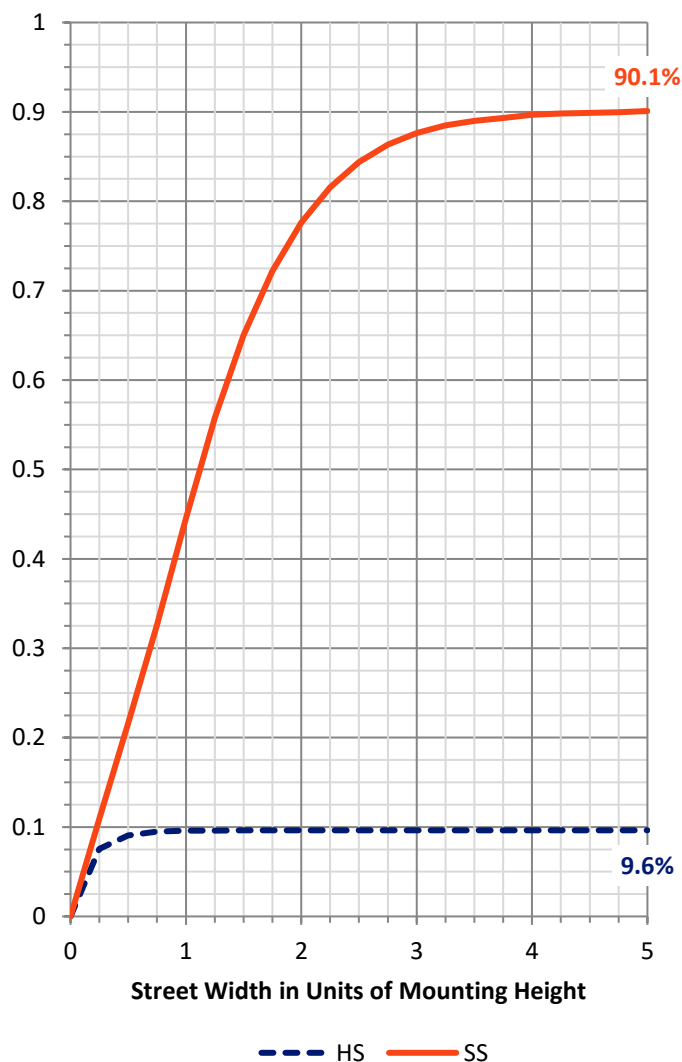
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2584.5	0.0	2584.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	23993.5	0.0	23993.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	26578.0	0.0	26578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	1.1
10°-20°	762.3	2.9
20°-30°	1197.6	4.5
30°-40°	2065.3	7.8
40°-50°	3929.4	14.8
50°-60°	6222.9	23.4
60°-70°	7261.4	27.3
70°-80°	4547.9	17.1
80°-90°	298.5	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26578.0	100.0
0°-180°	26578.0	100.0

Coefficient of Utilization



REPORT NUMBER: P381251

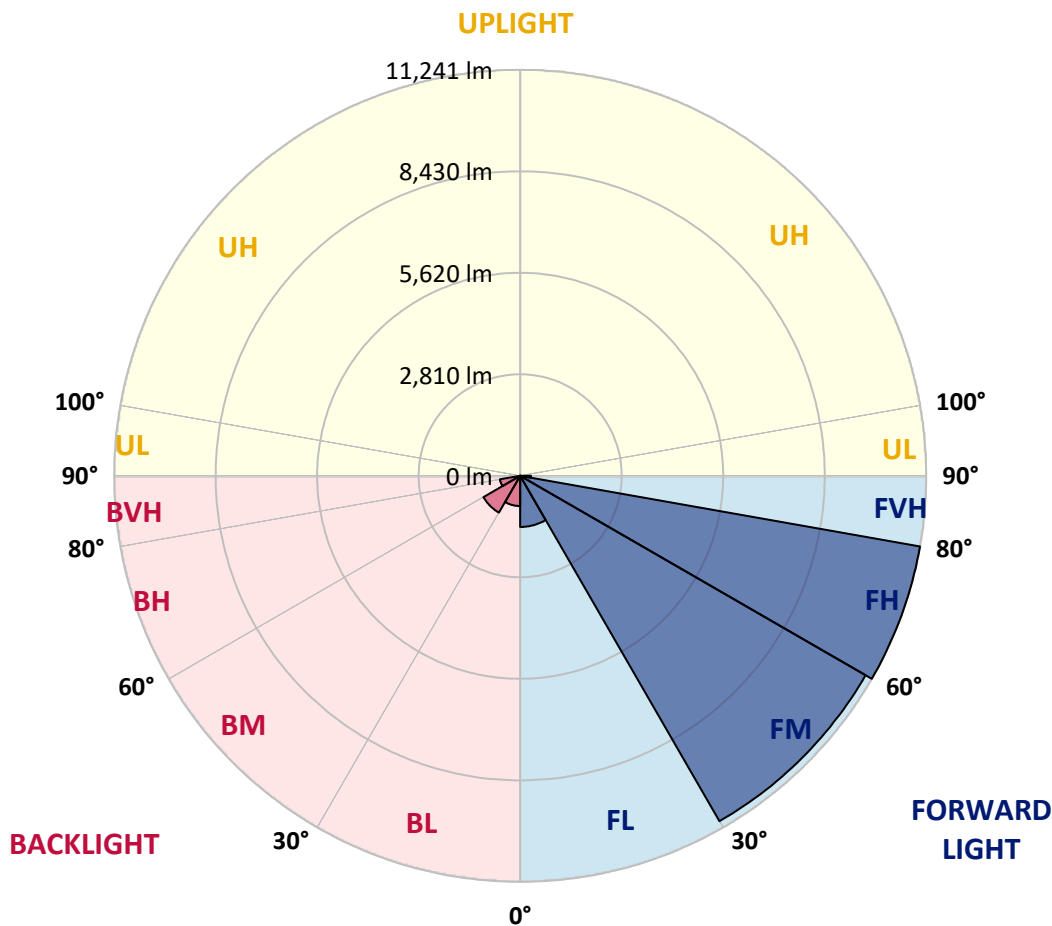
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.6	5.3			
FM (30°-60°)	11041.6	41.5			
FH (60°-80°)	11240.6	42.3			G4/12000
FVH (80°-90°)	295.6	1.1			G3/500
BL (0°-30°)	837.0	3.1	B2/1000		
BM (30°-60°)	1176.0	4.4	B2/2500		
BH (60°-80°)	568.7	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





REPORT NUMBER: P381251

CATALOG NUMBER: PRV-XL-PA4B-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3174.9	3160.7	3155.9	3151.2	3155.9	3160.7	3146.4	3160.7	3151.2	3155.9	3165.4
5°	3060.9	3046.6	3041.9	3046.6	3060.9	3084.6	3094.1	3108.4	3108.4	3122.7	3127.4
7.5°	2932.5	2923.0	2918.3	2927.8	2956.3	3008.6	3037.1	3056.1	3075.1	3103.6	3132.2
10°	2861.2	2856.5	2851.7	2866.0	2894.5	2942.0	2980.1	3008.6	3079.9	3160.7	3213.0
12.5°	2813.7	2813.7	2823.2	2851.7	2889.8	2927.8	3018.1	3056.1	3165.4	3289.0	3360.3
15°	2775.7	2775.7	2790.0	2842.2	2894.5	2984.8	3117.9	3160.7	3289.0	3441.1	3536.2
17.5°	2747.2	2756.7	2766.2	2818.5	2918.3	3070.4	3227.2	3289.0	3445.9	3612.2	3716.8
20°	2751.9	2761.4	2766.2	2818.5	2961.1	3170.2	3369.8	3441.1	3621.7	3797.6	3902.1
22.5°	2780.4	2794.7	2799.5	2870.8	3037.1	3274.8	3531.4	3612.2	3807.1	3992.4	4073.2
25°	2899.3	2908.8	2880.3	2942.0	3146.4	3436.3	3740.5	3826.1	4021.0	4192.1	4258.6
27.5°	3303.3	3312.8	3155.9	3084.6	3232.0	3569.4	3997.2	4116.0	4358.4	4472.5	4482.0
30°	4177.8	4187.3	3878.4	3540.9	3436.3	3683.5	4139.8	4306.1	4619.8	4748.2	4691.1
32.5°	5304.2	5294.7	4871.7	4372.7	3921.1	3883.1	4344.2	4520.0	4862.2	4985.8	4943.0
35°	6435.4	6449.7	6088.5	5337.5	4691.1	4258.6	4605.6	4809.9	5223.4	5399.3	5323.3
37.5°	7210.2	7305.2	7148.4	6335.6	5636.9	4952.5	5028.6	5247.2	5765.3	6002.9	5841.3
40°	8303.3	8279.6	7899.3	7300.5	6682.6	5979.2	5713.0	5817.6	6411.7	6730.1	6478.2
42.5°	9772.0	9724.4	9078.0	8493.4	7804.3	7229.2	6687.3	6668.3	7153.1	7523.8	7157.9
45°	11102.8	11031.5	10589.5	10023.9	9268.2	8607.5	7875.6	7709.2	8046.7	8360.4	7932.6
47.5°	12162.7	12043.9	11730.2	11430.7	11245.4	10218.7	9120.8	8868.9	9040.0	9272.9	8669.3
50°	13417.4	13089.5	12633.2	12452.6	12837.6	12043.9	10318.6	10076.2	10066.6	10199.7	9429.8
52.5°	13987.8	13393.7	13137.0	13289.1	13968.8	13740.6	11611.3	11264.4	11126.5	11140.8	10137.9
55°	13298.6	13232.1	13369.9	13845.2	14734.0	14600.9	12851.9	12424.1	12219.7	11963.1	10817.6
57.5°	12514.4	12718.8	13265.4	14173.2	15703.6	15499.2	14073.3	13588.6	13213.1	12623.7	11573.3
60°	11792.0	12001.1	12904.1	14249.2	16235.9	16364.2	15090.5	14629.4	14073.3	13298.6	12405.1
62.5°	10694.0	10855.6	12124.7	14139.9	16003.0	16868.1	15798.7	15451.7	14933.6	13940.3	13360.4
65°	9458.3	9562.8	10817.6	13265.4	15546.7	16811.0	16383.3	16188.4	15684.6	14610.4	14306.2
67.5°	8103.7	8227.3	9272.9	11692.1	14653.2	16544.9	16934.6	16915.6	16340.5	15351.9	14990.7
70°	6544.7	6554.3	7419.3	9695.9	13094.2	16012.5	17619.0	17661.8	16967.9	15908.0	15019.2
72.5°	3132.2	3388.8	4809.9	6768.1	10641.8	14966.9	18065.8	18279.7	17362.4	15889.0	13398.4
75°	717.7	741.5	1402.1	3217.7	6240.6	11487.8	16948.9	17348.1	16402.3	13740.6	9439.3
77.5°	261.4	275.7	394.5	941.1	2400.2	5936.4	12129.4	12714.0	12124.7	8883.2	4463.0
80°	175.9	171.1	204.4	418.3	1102.7	1682.5	6202.5	6549.5	5979.2	3032.4	1069.4
82.5°	90.3	95.1	142.6	232.9	741.5	584.6	2072.3	2252.9	1853.6	608.4	199.6
85°	42.8	42.8	80.8	147.3	313.7	204.4	461.0	556.1	499.1	266.2	66.5
87.5°	42.8	42.8	76.0	95.1	161.6	85.6	114.1	142.6	133.1	142.6	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P381251
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3165.4	3160.7	3155.9	3165.4	3160.7	3170.2	3170.2	3179.7	3179.7	3170.2	3165.4
5°	3122.7	3113.2	3103.6	3103.6	3098.9	3108.4	3136.9	3160.7	3165.4	3151.2	3146.4
7.5°	3127.4	3127.4	3117.9	3098.9	3065.6	3065.6	3065.6	3094.1	3108.4	3098.9	3094.1
10°	3213.0	3217.7	3194.0	3151.2	3094.1	3041.9	2942.0	2794.7	2656.9	2618.8	2604.6
12.5°	3360.3	3365.1	3317.5	3241.5	3122.7	2813.7	2433.5	2081.8	1810.9	1734.8	1720.6
15°	3536.2	3540.9	3455.4	3331.8	2970.6	2252.9	1687.3	1288.0	1050.4	993.4	988.6
17.5°	3716.8	3707.3	3578.9	3341.3	2519.0	1597.0	1026.6	822.3	760.5	746.2	751.0
20°	3892.6	3864.1	3688.3	3165.4	1939.2	1045.6	751.0	703.4	689.2	679.7	679.7
22.5°	4054.2	3997.2	3778.6	2818.5	1359.3	751.0	670.2	660.7	641.6	627.4	622.6
25°	4215.8	4135.0	3835.6	2366.9	912.6	655.9	632.1	613.1	589.4	570.3	565.6
27.5°	4410.7	4296.6	3807.1	1796.6	684.4	608.4	589.4	560.8	527.6	499.1	489.5
30°	4596.1	4467.7	3645.5	1240.5	584.6	560.8	532.3	489.5	446.8	413.5	404.0
32.5°	4828.9	4681.6	3355.5	812.7	508.6	489.5	461.0	408.7	351.7	313.7	304.2
35°	5161.7	4995.3	2984.8	570.3	446.8	413.5	375.5	318.4	256.7	228.1	223.4
37.5°	5627.4	5404.1	2519.0	461.0	394.5	347.0	289.9	232.9	190.1	166.4	161.6
40°	6197.8	5855.6	2001.0	408.7	351.7	289.9	218.6	166.4	137.8	118.8	118.8
42.5°	6815.7	6278.6	1473.4	375.5	308.9	237.6	161.6	118.8	99.8	90.3	85.6
45°	7452.6	6654.1	993.4	347.0	270.9	180.6	114.1	80.8	66.5	66.5	61.8
47.5°	8113.2	6906.0	641.6	313.7	228.1	133.1	76.0	57.0	47.5	47.5	47.5
50°	8769.1	7039.0	456.3	285.2	185.4	90.3	57.0	42.8	38.0	38.0	38.0
52.5°	9244.4	6953.5	366.0	247.2	142.6	66.5	42.8	33.3	28.5	28.5	28.5
55°	9657.9	6806.2	318.4	213.9	104.6	47.5	33.3	28.5	23.8	23.8	23.8
57.5°	10080.9	6616.0	285.2	180.6	76.0	33.3	23.8	19.0	19.0	19.0	19.0
60°	10465.9	6292.8	247.2	142.6	52.3	23.8	19.0	14.3	14.3	14.3	14.3
62.5°	10841.4	6017.2	213.9	109.3	38.0	19.0	9.5	9.5	4.8	4.8	4.8
65°	11055.3	5646.4	171.1	71.3	23.8	14.3	4.8	4.8	0.0	0.0	0.0
67.5°	10988.7	5204.4	118.8	42.8	14.3	9.5	4.8	0.0	0.0	0.0	0.0
70°	10527.7	4610.3	71.3	23.8	14.3	9.5	4.8	0.0	0.0	0.0	0.0
72.5°	8816.6	3412.6	42.8	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0
75°	5888.8	1568.5	23.8	14.3	4.8	4.8	0.0	0.0	0.0	0.0	0.0
77.5°	2694.9	470.5	14.3	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	541.8	123.6	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	114.1	23.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)